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(54) LENS ARRAY SHEET AND ITS FORMING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a lens array sheet which can converge diffused rays of light, such as rays of light from an LED (Light Emitting Diode) light source or an EL (Electroluminescent) light source effectively.

SOLUTION: This sheet is a lens array sheet which is equipped with a transparent substrate, a plurality of light receiving parts which are provided on the surface of the substrate and each of which consists of a transparent straight cone which is tapered as it goes to the outside of the substrate and a plurality of focusing lens parts which are arranged respectively on the back of the substrate by being opposed to the light receiving parts and the sheet is characterized by that the side face of the cone is formed with a tapered angle which is larger than 0° and is smaller than 15° with respect to the center axis line and also an aspect ratio (H/D) being the ratio of the height (H) to the minimum length (D) of the cut end of the cone is equal to or larger than 0 or is equal to or smaller than 10.